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*North America's Leader in Hazardous Material Information Management*  
*1905 Aston Avenue, Carlsbad, CA 92008*  
*Phone (800) 451-8346 Fax (760) 602-8888*

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## MSDS PRODUCT INFORMATION

Date: 10/07/2005  
To: MSDS Requester  
From: 3E Company  
Subject: The MSDS you have requested

☐ MSDS NOT REQUIRED

In response to your request for a Material Safety Data Sheet, according to the OSHA Hazard Communication Standard (Right-to-Know), the following item is an article. Articles are defined in 29 CFR 1910.1200(c). Products such as Drugs, cosmetics, food, or alcoholic beverages, wood or wood products, and tobacco or tobacco products, as defined in 29 CFR 1910.1200(b)(6), are exempt from the Hazard Communication Standard. Items that are considered articles, as defined in 29 CFR 1910.1200(c), are also exempt from this Standard. Therefore, the manufacturer is not required to provide an MSDS for this product.

☒ MSDS DISCONTINUED PRODUCT

In response to your request for a Material Safety Data Sheet, the manufacturer has discontinued the product listed below. The MSDS Attached is the most current version, or an MSDS is no longer available.

☐ MSDS BEST COPY AVAILABLE

The MSDS attached is the best copy available from the manufacturer.

☐ MANUFACTURER NO LONGER IN BUSINESS

In response to your request for a Material Safety Data Sheet, a current MSDS could not be obtained for this product. It has been determined that the manufacturer listed below is no longer in business. A current address and phone number could not be located.

Manufacturer: Solaris Group  
Product Name: Ortho Ant-Stop Ant Killer (DISCONTINUED)



**3E COMPANY** *North America's Leader in Hazardous Material Information Management*

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<b>MSDS DISCONTINUED PRODUCT</b>
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**Date:** 10/01/2001

**To:** MSDS Requester

**From:** 3E Company

**Subject:** The MSDS you have requested

**In response to your request for a Material Safety Data Sheet, the manufacturer has discontinued the product listed below. The MSDS attached is the most current version, or an MSDS is no longer available.**

**Manufacturer:** Solaris Group

**ProductName:** Ortho Ant-Stop Ant Killer (DISCONTINUED)

# MATERIAL SAFETY DATA SHEET

DATE PREPARED: 07/26/1995

MSDS No: 5423

SOLARIS

ORTHO® ANT-STOP™ Ant Killer

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ORTHO® ANT-STOP™ Ant Killer

PRODUCT DESCRIPTION: Insecticide

### MANUFACTURER

The SOLARIS Group  
of Monsanto Company  
P.O. Box 5008

San Ramon, CA 94583-0808

EPA REG. NO.: 239-2490E PN: 5466-D

### 24 HR. EMERGENCY TELEPHONE NUMBERS

Emergency Phone 800-454-2333

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS Registry #
Chlorpyrifos, Diethyl(trichloro-2-pyridyl)phosphorothioate	0.5	2921-88-2
INERT INGREDIENTS	~ 98.73	

"Inert Ingredients" is a term defined by the U.S. Environmental Protection Agency under the Federal Insecticide, Fungicide, and Rodenticide Act (40 CFR 158.153). It refers to any substance, other than an active ingredient, which is intentionally added to a pesticide product. Some inert ingredients may be hazardous chemicals, as defined by the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). The hazards associated with these inert ingredients have been included in this document.

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear to white hazy liquid.

IMMEDIATE CONCERNS: - AVOID CONTACT WITH EYES,

**SKIN OR CLOTHING**

- AVOID BREATHING VAPOR OR SPRAY MIST
- KEEP OUT OF REACH OF CHILDREN

**POTENTIAL HEALTH EFFECTS**

**EYES:** This substance is not expected to cause prolonged or significant eye irritation. See section 11 "Toxicological Information" for more information.

**SKIN:** This substance is not expected to cause prolonged or significant skin irritation. If absorbed through the skin, this substance is considered practically non-toxic to internal organs. See Toxicological Information, section 11.

**INGESTION:** The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if swallowed. See Toxicology Information, Section 11.

**INHALATION:** The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if inhaled.

**SUBCHRONIC/CHRONIC TOXICITY**

**CHRONIC:** Chlorpyrifos was not carcinogenic when tested in rats and mice in two-year feeding studies.

**TARGET ORGANS:** Chlorpyrifos is an inhibitor of the cholinesterase enzyme, found in nervous tissue, red blood cells, and plasma.

**COMMENTS HEALTH:** Depending upon the extent and degree of overexposure to the product, signs and symptoms of cholinesterase inhibition can result following either ingestion, skin contact or inhalation routes of exposure. Signs and symptoms of cholinesterase inhibition can result from either acute (one time), subchronic (repeated short-term) and chronic (daily life-time) overexposure to the product.

Signs and symptoms of cholinesterase inhibition usually occur within 12 hours following overexposure. These effects may include, but may not be limited to, headache, dizziness, weakness, nausea, vomiting, diarrhea, constriction of the pupil of the eye, blurred or dark vision, excessive salivation or nasal discharge, profuse sweating and abdominal cramps. Incontinence, unconsciousness, convulsions and breathing difficulties are indicative of severe poisoning. In untreated severe poisoning, death is due to respiratory failure or cardiac arrest.

**4. FIRST AID MEASURES**

**EYES:** No first aid procedures are required. However, as a precaution flush eyes with fresh water for 15 minutes. Remove contact lenses if worn.

**SKIN:** No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

**INGESTION:** If swallowed, immediately telephone a poison control center, emergency treatment center or a physician for advice. DO NOT make person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, then immediately take person and product container, with label, to an emergency treatment center.

**INHALATION:** Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required.

**NOTES TO PHYSICIAN:** This material contains a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.

**ADDITIONAL INFORMATION:** Medical Information: Call day or night, 1-800-454-2333 OR 1-800-457-2022.

## 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** >200°F TAG CC

**HAZARDOUS COMBUSTION PRODUCTS:** Exposure to heat or flame may produce hydrogen chloride, ethyl sulfide, diethyl sulfide and nitrogen oxides.

**FIRE FIGHTING PROCEDURES:** This material will not burn. Smoke from fires involving this material may present unusual hazards. Avoid breathing smoke and mists. Avoid contact with fallout and runoff. Minimize the amount of water used for fire fighting. Foam fire-extinguishing system is preferred because uncontrolled water can spread contamination. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Read the entire document.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Soak up spilled material with paper towels and discard in trash.

**LARGE SPILL:** Liquid spills on floor or other impervious surfaces should be contained or diked, and should be absorbed with attapulgate, bentonite or other absorbent clays. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under Section 13. "DISPOSAL". Thoroughly scrub floor or other impervious surface with a strong industrial type detergent solution and rinse with water.

For liquid spills that soak into the ground, contact the applicable Federal, State and or County Health Dept. for disposal recommendations. If disposal is required then refer to Section 13 "DISPOSAL" for instructions.

Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under Section 13 "Disposal". Any recovered spilled liquid should be similarly collected and disposed of.

Do not contaminate water, foodstuffs or feed by storage or disposal.

**GENERAL PROCEDURES:** Observe all protection and safety precautions when cleaning up spills -- see Section 8. "EXPOSURE CONTROLS/PERSONAL PROTECTION". For help with any spill, leak, fire or exposure involving this material, call day or night (800) 454-2333.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Keep pesticide in original container. For containers larger than 24 oz.: Place sprayer nozzle under handle on container so the sprayer is not below level of contents of container to prevent leakage. Store in a secure, preferably locked, storage area. Protect container from freezing.

**STORAGE TEMPERATURE:** Do not store below 32°F.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** No special ventilation is normally required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standards (in Section 8), then special ventilation may be required.

### PERSONAL PROTECTION

**EYES AND FACE:** For application of product in accordance with label instructions, no special eye protection is needed.

Handling of the product is not likely to present an eye exposure concern

during normal handling. In the event of an accidental discharge of the material during manufacture or handling which could cause eye contact, workers should wear goggles or a face shield.

**SKIN:** No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing. Wash thoroughly with soap and water after handling.

**RESPIRATORY:** Handling of the product is not likely to present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which produces a heavy mist, workers should put on respiratory protection equipment. Consult respirator manufacturer to determine appropriate type of equipment. Observe respirator use limitations specified by NIOSH MSHA or the manufacturer.

For application of product in accordance with label instructions, no special respiratory protection is required.

### **OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):**

<u>Chemical Name</u>	<u>EXPOSURE LIMITS</u>		
	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>ACGIH STEL</u>
Diethyl(trichloro-2-pyridyl)phosphorothioate	0.2 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>	None
Aromatic Hydrocarbon	100 ppm	100 ppm	150 ppm

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid

**APPEARANCE:** Clear to white hazy liquid

**pH:** ~7.5 to 8.5

**PERCENT VOLATILE:** No Data Available

**VAPOR PRESSURE:** No Data Available

**VAPOR DENSITY:** No data Available

**BOILING POINT:** 212°F

**FREEZING POINT:** No Data Available

**MELTING POINT:** No Data Available

**SOLUBILITY IN WATER:** Miscible with water.

**EVAPORATION RATE:** 0(n-Butyl Acetate=1)

**DENSITY:** No Data Available

**SPECIFIC GRAVITY:** 1.0 at 20°C

## 10. STABILITY AND REACTIVITY

**STABLE:** YES

**HAZARDOUS POLYMERIZATION:** NO

**CONDITIONS TO AVOID:** Do not store below 32°F.

**HAZARDOUS DECOMPOSITION:** Exposure to heat or flame may produce hydrogen chloride, ethyl sulfide, diethyl sulfide and nitrogen oxides.

**INCOMPATIBLE MATERIALS:** May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**EYES:** No product toxicology data available. The following information was based on a similar formulation. No evidence of eye irritation was observed in the rabbit eye irritation study. The primary irritation score was 0. See comments for data reference No. 1.

**DERMAL LD<sub>50</sub>:** No product toxicology data available. The following information was based on a similar formulation.

**SKIN IRRITATION:** No evidence of skin irritation was observed in the rabbit skin irritation study. The primary irritation score was 0. See comments for data reference No. 1.

**SKIN SENSITIZATION:** Results of the product guinea pig skin sensitization study indicated that the formulation is not considered to be a skin sensitizer under the conditions tested. See comments for data reference No. 2.

**Acute Dermal Toxicity:** Rabbit Acute Dermal LD50 = >5 gm/kg (See comments reference No. 1)

**ORAL LD<sub>50</sub>:** No product toxicology data available. The following information was based on a similar formulation.

**Acute Oral Toxicity:** Rat Acute Oral LD50 = >10 gm/kg.



**INHALATION LC<sub>50</sub>:** No inhalation studies were done on this formulation. However, due to the low oral toxicity and dilute nature of the product, it is not expected to be toxic by the inhalation route of exposure.

**COMMENTS:** References:

- 1) 0.5% Ready-To-Use Chlorpyrifos: Acute Toxicological Properties, Dow Chemical Company, Midland, MI, 1980.
- 2) CEHC 3249: Delayed Contact Hypersensitivity Study in Guinea Pigs (Buehler Technique) with ORTHO Home Pest Insect Control (SX-CP-1-90-3). Chevron Environmental Health Center, September 17, 1991.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No data available.

**ECOTOXICOLOGICAL INFORMATION:** This material is toxic to fish, birds and other wildlife. Do not apply directly to water. Do not apply where runoff is likely to occur. This product is highly toxic to bees exposed to direct treatment or residues on plants.

## 13. DISPOSAL CONSIDERATIONS

**FOR LARGE SPILLS:** Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or local procedures.

**PRODUCT DISPOSAL:** The Solaris Group is committed to responsible environmental practices and recommends that all of the product be used up, carefully following all label directions and precautions.

If necessary to dispose of partially filled product container, then securely wrap it in several layers of newspaper and discard in trash.

**EMPTY CONTAINER:** Do not reuse container. Rinse thoroughly before discarding in trash.

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not Regulated

**PRIMARY HAZARD CLASS/DIVISION:** None

**UN/NA NUMBER:** NONE

**PACKING GROUP:** NO

**U.S. SURFACE FREIGHT CLASS:** Insecticides, Fungicides, Insect or animal repellents or vermin exterminators, NOI, Other than poison

**AIR (ICAO/IATA)**

**PROPER SHIPPING NAME:** Not Regulated

**SPECIAL SHIPPING NOTES:** The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

## 15. REGULATORY INFORMATION

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA				
ACUTE:	CHRONIC:	FIRE:	REACTIVITY:	PRESSURE
NO	NO	NO	NO	GENERATING: NO

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA RQ:** 1 Lb. of Chlorpyrifos

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** All non FIFRA regulated components are on the US EPA's TSCA Inventory List.

## 16. OTHER INFORMATION

**HMIS CODES**

**FIRE: 0 HEALTH: 0 REACTIVITY: 0 PROTECTION: -**

**NFPA CODES**

**FIRE: 0 HEALTH: 0 REACTIVITY: 0 SPECIAL: -**

**APPROVAL DATE:** 09/11/1995

**REVISION SUMMARY** New MSDS

**COMMENTS:** For additional information concerning this product, call the SOLARIS Groups Consumer Helpline at 800-225-2883.

**MANUFACTURER DISCLAIMER:** This Material Safety Data Sheet (MSDS) contains health, safety and environmental information for you and your employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label. Information contained in this MSDS will help you to prepare for emergency response and to meet community right-to-know, emergency response and reporting requirements under SARA Title III and many other laws. Emergency response agencies and health care providers will also find this additional information useful.

Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved label copy. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Monsanto Company and The Solaris Group make no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determinations as to its suitability for their purposes prior to use. In no event will Monsanto Company or The Solaris Group be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.